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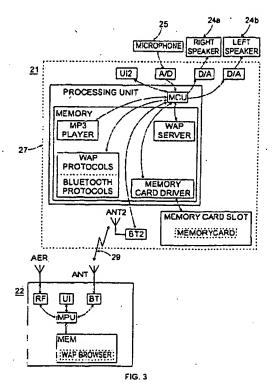
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(54) Hands-free function for a mobile station

(57) The invention relates to a apparatus for implementing a hands-free function, the apparatus comprising a mobile station (22) and a headset (21). The apparatus comprises means for transferring an audio signal of a call between the mobile station (22) and the headset (21) for hands-free implementation of the call. The mobile station (22) and the headset (21) both comprise a short-range radio transceiver (BT, BT2) for wireless transfer of files between the mobile station (22) and the headset (21). The headset comprises a memory means for storing the files in the headset. The invention also relates to a headset (21).





EUROPEAN SEARCH REPORT

Application Number

| | DOCUMENTS CONSIDE | | 1 5 | |
|--|---|---|---|--|
| Category | Citation of document with Indi of relevant passage | | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Ini.CL7) |
| A | WO 99 43136 A (ERICS 26 August 1999 (1999 * the whole document | -08-26) | 1-16 | HO4M1/60 HO4M1/725 |
| A S | EP 0 821 257 A (KOPII 28 January 1998 (1998 * page 2, line 40 - * page 3, line 11-13 * page 11, line 29 - * page 11, line 53 - | 3-01-28) line 42 * | 1-9, | |
| A | WO 00 07176 A (HINTZ KATHLEEN M (US); RUPF 10 February 2000 (200 * page 3, line 10 - 1 * page 3, line 26 - 1 * page 5, line 5 - 1 * page 11, line 24 - * page 13, line 3 - 1 * page 19, line 15 - | PERT JONATHAN P (US)) 90-02-10) line 13 * line 28 * ine 8 * line 27 * line 21 * | 1-6, 13-15 | t |
| A | "CELLULAR PHONE WITH PLAYER" , RESEARCH DI MASON PUBLICATIONS, H 418, PAGE(S) 184 XPOG ISSN: 0374-4353 * the whole document | SCLOSURE, KENNETH HAMPSHIRE, GB, NR. 10893213 | 1,13 | TECHNICAL FIELDS BEARCHED (IM.CI.7) H04M |
| A | US 5 983 100 A (JOHAN AL) 9 November 1999 (* the whole document | 1999-11-09) | 1,13 | |
| | The present search report has been | n drawn up for all claims Dac of completion of the scarch | | Szarving: |
| | | | | |
| X : partie Y : partie docui A : techr | THE HAGUE TEGORY OF CITED DOCUMENTS sularly relevant it taken alone sularly relevant it combined with another ment of the same category indigical background written disclosure | 25 August 2003 T: theory or principl E: sarlier patent do after the filing dat D: document clad i L: document clad i | e underlying the mo purnent, but publish e n the application or other reasons | ed on, or |

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 66 0086

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25-08-2003

| | Patent document cited in search repo | | Publication date | | Patent fan member(| | Publication date |
|----|--------------------------------------|-----|------------------|------|-----------------------|---------|------------------|
| ₩n | 9943136 | Α | 26-08-1999 | AU | 757427 | B2 | 20-02-2003 |
| | | , , | E0 00 1777 | AU | 2220699 | | 06-09-1999 |
| | | | | BR | 9908009 | Â | 24-10-2000 |
| | | | | CN | 1291400 | Ŷ | 11-04-2001 |
| | | | | EE | 200000463 | | 15-02-2002 |
| | | | | ĒΡ | 1057312 | | 06-12-2002 |
| | | | | Jp | 2002504782 | Ţ | 12-02-2002 |
| | | | | NO | 20004149 | À | 18-10-2000 |
| | | | | RU | 2193822 | | 27-11-2002 |
| | | 1 | | MO | 9943136 | | 25-08-1999 |
| | | | | | | n4. | |
| ΕP | 0821257 | Α - | 28-01-1998 | ĘΡ | 0821257 | | 28-01-1998 |
| | | | • | CA | 2174510 | | 27-04-1995 |
| • | | | | ΕP | 0724743 | Al | 07-08-1996 |
| | | | | JP | 9504120 | T | 22-04-1997 |
| | | | | US | | B1 | 16-07-2002 |
| | | | | WO | | A1 | 27-04-1995 |
| | | | | US | 2002005819 | | 17-01-2002 |
| | | | | US | 6452572 | | 17-09-2002 |
| • | | | | · US | 2082190923 | A1 | 19-12-2002 |
| | | | | US | 6424321 | B1 | 23-07-2002 |
| | | | | US | | A | 29-09-1998 |
| | | | | US | 2002163486 | | 07-11-2002 |
| | | | | US | 2001054989 | Al | 27-12-2001 |
| พก | 0007176 | Α | 10-02-2000 | US | 6236969 | B1 | 22-05-2001 |
| | | • • | | ΕP | 1101219 | | 23-05-2001 |
| | | | | WO | 9007176 | | 10-02-2000 |
| | 5983100 | Α | 09-11-1999 | US | 5913163 | ۸ | 15-06-1999 |
| US | 2302100 | ^ | 03-11-1333 | AU | 719471 | | 11-05-2000 |
| | • | | | AU | 4405197 | A A | 02-04-1998 |
| | | | | BR | | Â | 24-08-1999 |
| | | | | CN | 1237302 | Â | 01-12-1999 |
| | | | • | EE | 9900120 | Â | 15-10-1999 |
| | | | | EP | | Âl | 30-06-1999 |
| | | | • | KR | | A | 26-96-2999 |
| | | | | MO | 9811707 | Äl | 19-03-1998 |
| | | | | AU | 719578 | | 11-05-2000 |
| | | | | AU | 2048997 | A. | 01-10-1997 |
| | | | | BR | 9708064 | • • | 27-07-1999 |
| | | | | CN | 1218595 | Ä | 02-06-1999 |
| | | | | EE | 9800303 | Â | 15-02-1999 |
| | | | • | ξP | | Al | 30-12-1998 |
| | | | | JP | 2000506693 | T | 30-12-1990 |
| | | | | W.F | | 4 | |
| | | | | PL | 328876 | Δ1 | 01-03-1999 |

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 66 0086

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way flable for these particulars which are merely given for the purpose of information.

25-08-2003

| | Patent documer cited in search rep | nt oort | Publication date | | Patent family member(s) | | Publication date |
|----|---------------------------------------|------------|------------------|----|-------------------------|---|------------------|
| US | 5983100 | Α | | WO | 9734403 A | 1 | 18-09-1997 |
| | | | | | | | |
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